
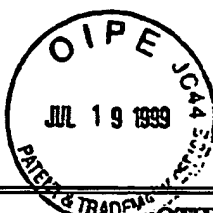


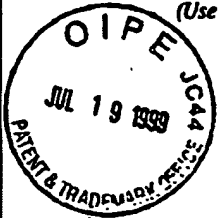













FORM PTO-1449		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO.  2016-4010US2	SERIAL NO.  09/335,581
INFORMATION DISCLOSURE CITATION (Use several sheets if necessary) 				APPLICANT(S) Bannan et al.	
				FILING DATE June 18, 1999	GROUP ART UNIT TBA 1645
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Papers, Etc.)					
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<i>mm</i>			Blomster-Hautamaa, E.A. et al. "Localization of biologic functions of toxic shock syndrome toxin-1 by use of monoclonal antibodies and cyanogen bromide-generated toxin fragments," <u>J. Immunol.</u> 137(11):3572-3576 (1986)		
<i>mm</i>			Bohach, G.A., et al., "Biological and immunological properties of the carboxyl terminus of Staphylococcal entero-toxin C1," <u>Infect. Immun.</u> 57(1):23-28 (1989)		
<i>mm</i>			Bonventre, P.F. et al., "A mutation at histidine residue 135 of toxic shock syndrome toxin yields an immunogenic protein with minimal toxicity," <u>Infect. Immun.</u> 63(2):509-515 (1995)		
<i>mm</i>			Chu, N.R. et al., "Comparison of peptide and superantigen-induced anergy in a peptide-specific polyclonal human T cell line," <u>Int. Immunol.</u> 7(7):1057-1063 (1995)		
<i>mm</i>			Drynda, A., et al., "Role of a carboxy-terminal site of toxic shock syndrome toxin 1 in eliciting immune responses of human peripheral blood mononuclear cells," <u>Infect. Immun.</u> 63(3):1095-1101 (1995)		
<i>mm</i>			Edwin, C., et al., "Structure-activity relationship of toxic-shock-syndrome toxin-1: derivation and characterization of immunologically and biologically active fragments," <u>J. Infect. Dis.</u> 158(6):1287-1295 (1988)		
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<i>JA</i>			Griggs, N.D., et al., "Mapping of Multiple Binding Domains of the Superantigen Staphylococcal Enterotoxin A for HLA", <u>J. Immunol.</u> , 148(8):2516-2521 (1992)		
<i>mm</i>			Grossman, D., et al., "Mutation of the disulfide loop in staphylococcal enterotoxin-A -Consequences for T-Cell recognition," <u>J. Immunol.</u> 147(10):3274-3281 (1991)		

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<i>m</i>			Hartwig, U.F., et al., "Mutations affecting MHC class II binding of the superantigen streptococcal erythrogenic toxin A", <i>Intern'l Immunol.</i> , 5:869-75 (1993)		
<i>m</i>			Hayball, J.D., et al. "The domain structure and functional relationships in the bacterial superantigen SEB," <i>Biol. Chem. Hoppe-Seyler</i> 376:303-309 (1995)		
<i>m</i>			Hoffmann, M.L., et al., "Predictions of T-Cell Receptor- and Major Histocompatibility Complex-Binding Sites on Staphylococcal Enterotoxin C1", <i>Infect. Immun.</i> , 62(8):3396-3407 (1994)		
<i>m</i>			Hovde, C.J., et al. "Investigation of the role of disulphide bond activity and structure of staphylococcal enterotoxin C1," <i>Mol. Micro.</i> 13(5):897-909 (1994)		
<i>GA</i>			Huang, I.Y., et al., "Complete amino acid sequence of staphylococcal enterotoxin A", <i>J. Biol. Chem.</i> , 262(15) 7006-7013 (1987)		
<i>m</i>			Huang, I.Y., et al., "The primary structure of staphylococcal enterotoxin B. III. The cyanogen bromide peptides of reduced and aminoethylated enterotoxin B, and the complete amino acid sequence", <i>J. Biol. Chem.</i> , 245(14):3518-25 (1970)		
<i>m</i>			Hynes, W. L., et al. "Immunologic Cross-Reactivity of Type A Streptococcal Exotoxin (Erythrogenic Toxin) and Staphylococcal Enterotoxins B and C1", <i>Infect. Immun.</i> , 55(3): 837-838 (1987)		
<i>m</i>			Iandolo, J.J., "Genetic analysis of extracellular toxins of Staphylococcus aureus", <i>Annu. Rev. Microbiol.</i> , 43:375-402 (1989)		
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<i>m</i>			Kline, J.B. and Collins, J.M., "Analysis of superantigenic activity of mutant and allelic forms of streptococcal pyrogenic exotoxin A," <i>Infect. Immun.</i> 64(3):861-869 (March 1996)		

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*GA* 8/05

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Papers, Etc.)					
			Lamphear, J.G., et al., "Residues near the amino and carboxyl termini of staphylococcal enterotoxin E independently mediate TCR V beta-specific interactions", <u>J. Immunol.</u> , 156(6):2178-85 (1996)		
			Marrack, P., et al. "The Staphylococcal Enterotoxins and Their Relatives", <u>Science</u> , Vol. 248, pp. 705-711 (1990)		
			Norrby-Teglund, A., et al., "Plasma from patients with severe invasive group A streptococcal infections treated with normal polyspecific IgG inhibits streptococcal superantigen-induced T cell proliferation and cytokine production", <u>J. Immunol.</u> , 156(8):3057-64 (1996)		
			Pontzer, C.H., et al., "Localization Of An Immune Functional Site On Staphylococcal Enterotoxin A Using The Synthetic Peptide Approach", <u>J. Immunol.</u> , 143(1):280-284 (1989)		
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			Printout from the Genetics Computer Group "Motifs" software (citing: Program Manual for the Wisconsin Package, Version 8, September 1994, Genetics Computer Group, 575 Science Drive, Madison, WI, USA 53711)		
			Ramesh, N., et al., "A toxic shock syndrome toxin-1 peptide that shows homology to mycobacterial heat shock protein 18 is presented as conventional antigen to T cells by multiple HLA-DR alleles," <u>J. Immunol.</u> 148(4):1025-1030 (1992)		
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			Reda, K.B., et al., "Molecular Characterization and Phylogenetic Distribution of the Streptococcal Superantigen Gene (ssa)", <u>Infection and Immunity</u> , 62/5:1867-1874 (May 1994)		
			Schlievert, P.M., et al., "Molecular structure of staphylococcus and streptococcus superantigens", <u>J. Clin. Immunol.</u> , 15(6) Suppl:4S-10S (1995)		
			Singh, B.R., et al., "Comparative structural analysis of staphylococcal enterotoxins A and E", <u>J. Biol. Chem.</u> , 264(8):4404-11 (1989)		

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Papers, Etc.):					
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mm			Soos, J.M. and Johnson, H.M., "Multiple binding sites on the superantigen, staphylococcal enterotoxin B, imparts versatility in binding to MHC Class II molecules," <u>Biochem. Biophys. Res. Comm.</u> 201(2):596-602 (1994)		
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mm			Spero, L., et al., "Cross-reaction between tryptic polypeptides of staphylococcal enterotoxins B and C", <u>J. Immunol.</u> , 122:1285-1289 (1979)		
mm			Srisakandian, S. et al., "Streptococcal pyrogenic exotoxin A release, distribution, and role in a murine model of fascitis and multiorgan failure due to Streptococcus pyogenes", <u>J. Infect. Dis.</u> , 173(6):1399-407 (1996)		
mm			Swaminathan, S., et al. "Crystal structure of staphylococcal enterotoxin B, a superantigen", <u>Nature</u> , 359:801-806 (1992)		
mm			Takei, S., et al. "Intravenous immunoglobulin contains specific antibodies inhibitory to activation of T cells by staphylococcal toxin superantigens", <u>J. Clin. Invest.</u> , 91:602-607 (1993)		
mm			Van Den Bussche, et al., "Molecular Evolution of the Staphylococcal and Streptococcal Pyrogenic Toxin Gene Family", <u>Molecular Phylogenetics and Evolution</u> , 2:281-292, (1993)		
mm			Warren, J.R., et al. "Stabilization of native structure by the closed disulfide loop of staphylococcal enterotoxin B," <u>Biochimica et Biophysica Acta</u> 359:351-363 (1974)		
mm			Woo, J., et al. "Development of mutants of Staphylococcal toxic shock syndrome toxin-1," <u>Molecules and Cells</u> , 6(1):79-85 (Feb. 1996)		
mm			Copy of slides from oral presentation by Dr. Jason Bannan at "XIII Lancefield International Symposium on Streptococci and Streptococcal Diseases, Paris, France, 9/16/96 to 9/20/96"		
mm			Copy of Search Report in PCT/US98/06663 (listing references and related patents)		
EXAMINER		DATE CONSIDERED			

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<b>U.S. PATENT DOCUMENTS</b>								
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
<b>FOREIGN PATENT DOCUMENTS</b>								
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	WO	98/45325	10/15/98	PCT	<del> </del>			
<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Papers, Etc.)</b>								
<b>EXAMINER</b>		<b>DATE CONSIDERED</b>						

M M Ginnfield
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